

State of California  
THE RESOURCES AGENCY  
Department of Fish and Game

SACRAENTO RIVER KING SALMON and STEELHEAD-TROUT SPORT CATCH  
1967-68 Through 1974-75

By

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INTRODUCTION

This paper summarizes the results of king salmon (Onchorhynchus tshawytscha) and steelhead trout (Salmo gairdnerii) sport catch census conducted by the California Department of Fish and Game on the Sacramento River during the 8-year period, 1967-68 through 1974-75. It also includes sport catch data obtained by similar methods during the period 1962-63 through 1965-66. The census area extended from Keswick Dam, the upstream limit of migration, downstream to Rio Vista, a distance of about 402 river kilometers (250 river miles). Sport catch estimates presented are based on data obtained at fishing resorts, public boat launching ramps and popular bank fishing sites along the main Sacramento River only, and do not include numbers of fish caught in Sacramento River tributaries.

*These are the results  
Presented in the  
Office report only  
Further work  
7/20/71*

METHODS

King Salmon

On the Sacramento River, most salmon are landed at resorts, public boat launching ramps and at several popular bank fishing sites. However, they are also landed at private docks adjacent to homes along the river. Salmon catch estimates in this report do not include fish landed at the private docks. Records of salmon landed at resorts were supplied by the resort operators on a weekly basis. However, no fishing effort data was supplied by the resort operators. Numbers of salmon landed, as well as fishing effort expended at public boat launching ramps and bank fishing sites was obtained by creel census, or sampling. It is assumed in this report that the average catch per angler day, and length of an average angler day was the same for fishermen using resorts, public boat launching ramps and bank fishing sites; and that data relating to catch per day, and length of an average angler day obtained at one is applicable to the others.

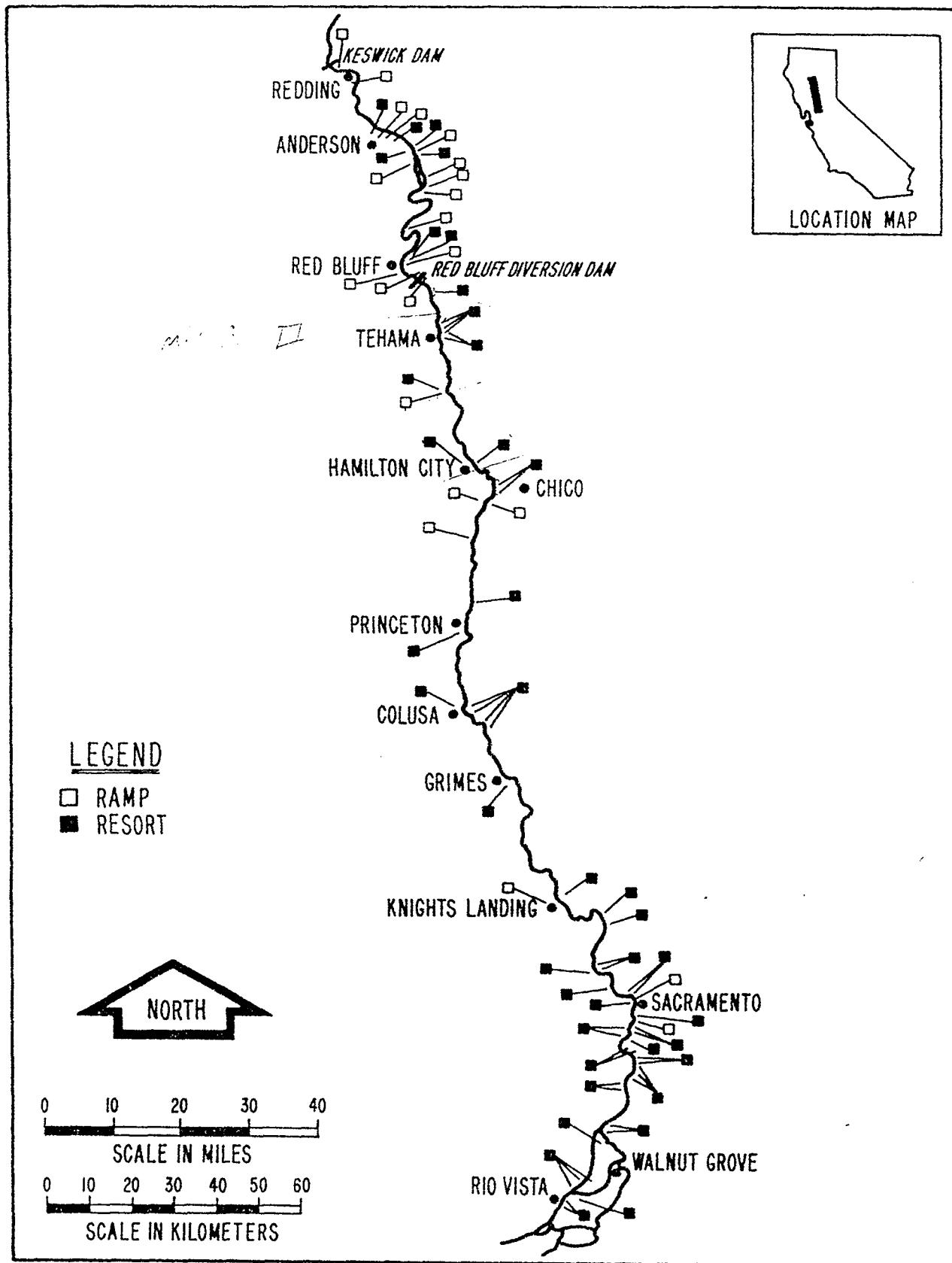


Figure 1. Sacramento River Salmon and Steelhead Sport Catch Area.

Sport catch figures were obtained from fishing resorts on a year around basis. However, there were periods of time when the numbers of salmon landed at public boat launching ramps and bank fishing sites was not available because no sampling was done.

During periods when only the resort landings were available, total landings were calculated by multiplying the resort catch by a ramp to resort catch ratio for each area, based on the data from table 2. The difference between the calculated total catch and the resort catch then represented fish landed at public ramps and bank fishing sites regularly sampled.

During periods of no sampling, "total angler days" was determined by dividing the calculated total number of salmon caught by an average "catch per <sup>Angler</sup> day" figure for each area, based on the data from tables 3 through 6.

To facilitate sport catch sampling, the Sacramento River was divided into the following areas: (1) Keswick Dam to Red Bluff, (2) Red Bluff to Hamilton City, (3) Hamilton City to Knights Landing,

(4) Knights Landing to Rio Vista. Each area contained privately-owned fishing resorts and at least one public boat launching ramp. During most years catch and fishing effort data was obtained from about 55 fishing resorts, 12 public boat launching ramps and 5 popular bank fishing sites.

Samplers spent two days each week (one weekday and either a Saturday or a Sunday) interviewing salmon and/or steelhead anglers at public boat ramps and bank fishing sites.

The census week ran from Monday through the following Sunday.

Landings for the five week days in each week were determined from one randomly sampled weekday; i.e., angler success and catch per effort on all week days in a particular week were considered equal.

Angler success and catch per effort on both weekend days and/or holidays in a particular week were also considered equal. When a weekday or weekend day of a particular week was not sampled, the landings and effort were estimated by averaging the landings of effort in the previous and subsequent weeks.

Fishing resorts were visited once each week to obtain the resort operators count of salmon landed since the samplers last visit. Many resort operators kept a record of the salmon landed by their customers and were pleased to make these records available to the sampler. Others did not keep formal records, but did note the fish landed.

Note: Tables 7 through 14;

Total catch is the sum of the resort catch and estimate of ramp and bank catch. In all other months, the estimate of the total catch is calculated as:

The resort catch X 1.5944 (area 1); 1.5638 (area 2); 1.6393 (area 3); and 1.4518 (area 4).

### Steelhead

Steelhead are landed at the same places salmon are, but in contrast to salmon a much greater proportion of the steelhead are landed at a host of bank fishing sites and private docks. The method used to calculate salmon sport catch and effort at resorts, public boat launching ramps and the few bank fishing sites where salmon are landed, was also used to calculate the fishing effort and numbers of steelhead landed there (tables 15 through 19). This total was then increased by the numbers of steelhead landed at the many additional bank fishing sites and riffles, as well as by those landed at private docks, to arrive at an estimate of the total steelhead landings.

Dralle (1965) estimated that steelhead anglers fishing from shore, and those using private docks took 40 percent of all steelhead. Total steelhead landings in this report were obtained by increasing public ramp, resort and bank fishing site (where salmon are landed) totals by two thirds (i.e., landings at fishing resorts, public boat ramps and bank fishing sites sampled was equal to 60 percent of the total landings; private dock and other shore landings were equal to 40 percent).

Note: Tables 20 through 27.

Total catch is the sum of the resort catch, estimate of ramp and bank catch, and estimate of private dock and shore catch.

In all other months, the estimate of the total catch is calculated as:

The resort catch x  $\frac{1.6997}{.6}$  (area 1);  $\frac{1.4512}{.6}$  (area 2);  $\frac{1.5141}{.6}$

(area 3);  $\frac{1.0802}{.6}$  (area 4).

RESULTS

King Salmon

Four runs or races of king salmon spawn in the Sacramento River system each year. The fall run spawns from early October through December, The late fall run from early January through mid-April, the winter run from mid-April through mid-July and the spring run from mid-August through early October.

In this report no effort has been made to separate the numbers of salmon caught from the various runs. However, based on their migration patterns and relative abundance in recent years, most salmon caught between July 1 and December 31 are fall-run fish, followed in order by late fall, winter and spring-run fish; whereas most salmon caught between January 1 and June 30 are either late fall or winter-run, followed in number by spring-run fish.

Most salmon are caught by anglers fishing from boats launched at public ramps and fishing resorts, rather than by shore fishermen. The number of king salmon landed each month in the Sacramento River was the sum of counts reported by all resort operators plus the

estimated landings at all public boat ramps and principal bank fishing sites.

Sport catch figures for the period, 1962-63 through 1974-75 (Table 1), indicate a gradual increase in the annual salmon catch from about 8,000 in the early 1960's, to a peak of 24,000 in the early 1970's, and a decline to 8,000 again by the mid 1970's. Fishing effort for the entire period averaged 104,300 angler days annually. In general, angling effort paralleled the catch, but greater effort was expended during the latter years to catch an equal number of fish.

During the eight year study period, 1967-68 through 1974-75, an average of nearly 17,500 salmon were caught annually on the Sacramento River. Each year two peaks occurred in the landings, one in the spring and the other in the fall. In nearly half of these years, the spring and fall salmon catch was about equal. Fishing effort for salmon during the eight year period averaged about 111,500 angler days annually (Tables 7 through 14).

### Steelhead

In contrast to the four annual runs of king salmon in the Sacramento River, there is only one run of steelhead. Adult steelhead usually start migrating upstream past the mouth of the Feather River in July and the run continues through the following March. The peak of the run passes the mouth of the Feather River in late September or early October.

While most salmon were landed by boat fishermen who used public ramps and fishing resorts, a much greater proportion of the steelhead catch was made by anglers who either walked or drove to riffles and fished from shore.

The number of steelhead landed each month in the Sacramento River was the sum of counts reported by all resort operators plus the estimated landings at all public and private boat ramps, and principal bank fishing sites.

Steelhead sport catch figures for the period 1962-63 through 1974-75 (Table 1), paralleled the salmon landings with about 6,400 steelhead being landed in the early 1960's followed

by a gradual increase in the landings to a peak of almost 29,000 fish by the late 1960's, and a decline to 6,500 in the mid 1970's. Fishing effort rose from 26,000 in 1962-63, to a peak of 215,000 in the late 1960's, dropping to 72,000 and back up to 158,000 by 1975.

During the eight year study period, 1967-68 through 1974-75, an average of nearly 19,000 steelhead were caught each year on the Sacramento River. Sixty-six percent of these were landed in October and November. Fishing effort for steelhead during this eight year study period averaged about 117,600 angler days annually. (Tables 20 through 27).

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TABLE 1  
ESTIMATED SACRAMENTO RIVER SPORT CATCH and ANGLING EFFORT  
1962-63 through 1974-75

1961-62 (See later)		<u>C A T C H</u>		<u>SALMON</u>			<u>ANGLER DAYS</u>		
<u>Year</u>	<u>Jul-Dec</u>	<u>Jan-Jun</u>	<u>Total</u>	<u>Jul-Dec</u>	<u>Jan-Jun</u>	<u>Total</u>	<u>Jul-Dec</u>	<u>Jan-Jun</u>	<u>Total</u>
1962-63	2,920	5,430	8,350	19,760	25,020	44,780			217
1963-64	6,820	8,120	14,940	49,210	73,530	122,740			"
1964-65	9,980	5,820	15,800	47,380	25,020	72,400			"
1965-66	7,040	6,320	13,360	63,500	57,100	120,600			
1967-68	10,871	12,080	22,951	75,743	58,688	134,431			
1968-69	7,181	8,278	15,459	44,269	33,645	77,914			
1969-70	13,671	3,847	17,518	55,557	18,687	74,244			
1970-71	12,604	10,708	23,312	82,920	53,352	136,272			137,352
1971-72	14,679	9,639	24,318	123,696	80,058	203,754			
1972-73	9,903	5,702	15,605	63,467	36,957	100,424			
1973-74	11,696	1,201*	12,897	81,158	8,101	89,259			
1974-75	5,472	2,684	8,156	66,301	12,997	79,298			

\* No recent records (Mar-Jun)

STEELHEAD

		<u>C A T C H</u>		<u>ANGLER DAYS</u>		
<u>Year</u>	<u>Jul-Dec</u>	<u>Jan-Jun</u>	<u>Total</u>	<u>Jul-Dec</u>	<u>Jan-Jun</u>	<u>Total</u>
1962-63			6,410			26,440
1963-64			10,720			73,880
1964-65			15,470			74,450
→ 1965-66			14,800			102,700
1967-68	28,195	1,244	29,439	205,079	9,627	214,706
1968-69	19,076	791	19,865	66,554	5,221	71,775
1969-70	28,292	498	28,790	79,034	6,321	85,355
1970-71	17,256	927	18,183	77,545	9,030	86,575
1971-72	20,574	1,675	22,249	111,481	22,585	134,066
1972-73	16,399	1,185	17,584	112,064	4,813	116,877
1973-74	9,508	622	10,130	68,438	4,684	73,122
1974-75	5,725	781	6,506	149,867	8,364	158,231

TABLE 2  
SALMON RESORT CATCH and ESTIMATED RAMP CATCH\*  
1968 - 1974

<u>Month</u>	<u>Area 1</u>		<u>Area 2</u>		<u>Area 3</u>		<u>Area 4</u>	
	Ramp	Resort	Ramp	Resort	Ramp	Resort	Ramp	Resort
SEP 1968	0	1	2	83	61	392	54	475
OCT 1968	51	48	6	112	287	486	767	1,997
NOV 1968	106	40	28	63	253	359	168	240
DEC 1968	11	0	9	40	225	155	0	46
JAN 1969	114	82	0	0	72	18	0	6
FEB 1969	32	36	0	0	19	4	0	0
MAR 1969	460	898	351	987	740	320	0	15
APR 1969	737	1,465	221	303	226	9	0	65
MAY 1969	116	259	22	126	264	5	0	12
JUN 1969	1	189	0	3	50	6	0	1
SEP 1969	2	222	77	196	493	787	406	975
OCT 1969	327	478	138	261	670	1,128	1,313	1,465
NOV 1969	152	313	79	590	646	858	293	807
DEC 1969	0	4	99	13	373	187	12	237
SEP 1970	170	609	99	107	355	504	259	654
OCT 1970	396	1,104	87	129	436	1,150	1,438	2,853
NOV 1970	82	317	6	31	99	103	279	189
DEC 1970	0	3	16	17	34	11	0	29
SEP 1971	214	632	26	107	139	530	158	767
OCT 1971	490	904	81	208	242	913	375	3,285
NOV 1971	279	410	94	120	189	673	316	514
DEC 1971	87	164	52	140	121	296	0	480
JAN 1972	162	93	498	918	332	785	14	1,084
FEB 1972	160	94	527	1,053	340	760	7	826
JAN 1973	66	124	33	63	44	82	52	97
FEB 1973	144	116	122	218	22	32	5	0
MAR 1973	390	323	719	540	218	182	0	8
APR 1973	565	664	94	144	69	50	25	57
SEP 1974	371	256	78	209	26	105	201	166
OCT 1974	439	441	79	111	43	121	849	435
NOV 1974	93	185	6	20	56	63	96	70
DEC 1974	50	70	5	69	28	144	0	24
TOTAL	6,267	10,544	3,654	6,481	7,172	11,218	8,087	17,897

$$\frac{\sum \text{Ramp}}{\sum \text{Resort}} = 0.5944 \quad 0.5638 \quad 0.6393 \quad 0.4518$$

\*Estimate includes only salmon landed at the area sampled.

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF SALMON FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Keswick to Rio Vista  
1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Salmon Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	410	1,792	64	4.370	0.156
OCT 1968	2,271	11,406	360	5.022	0.158
NOV 1968	1,334	6,238	206	4.676	0.154
DEC 1968	269	1,456	78	5.413	0.290
JAN 1969	186	935	51	5.027	0.274
FEB 1969	84	333	16	3.964	0.190
MAR 1969	1,783	9,354	543	5.246	0.304
APR 1969	1,470	7,798	370	5.304	0.252
MAY 1969	496	2,756	128	5.556	0.258
JUN 1969	78	463	23	5.936	0.295
SEP 1969	1,194	6,252	364	5.232	0.305
OCT 1969	2,828	14,671	779	5.188	0.275
NOV 1969	1,989	9,735	374	4.894	0.188
DEC 1969	282	1,755	122	6.223	0.433
SEP 1970	1,706	7,905	268	4.634	0.157
OCT 1970	4,834	25,122	741	5.197	0.153
NOV 1970	1,698	7,928	174	4.669	0.102
DEC 1970	72	358	16	4.972	0.222
SEP 1971	1,566	7,246	163	4.627	0.104
OCT 1971	4,970	24,223	626	4.874	0.126
NOV 1971	1,990	9,453	230	4.750	0.116
DEC 1971	517	2,433	83	4.706	0.160
JAN 1972	1,710	8,189	354	4.788	0.207
FEB 1972	2,040	10,240	300	5.019	0.146
JAN 1973	105	386	31	3.676	0.295
FEB 1973	534	2,212	100	4.142	0.187
MAR 1973	1,914	10,318	385	5.391	0.201
APR 1973	1,219	6,446	148	5.292	0.122
SEP 1974	2,007	5,363	260	2.672	0.129
OCT 1974	4,206	12,101	405	2.877	0.096
NOV 1974	1,844	5,549	92	3.009	0.050
DEC 1974	542	1,908	29	3.520	0.053
TOTALS	48,148	222,324	7,883		

$$\frac{\sum \text{Salmon Catch}}{\sum \text{No. Anglers Interviewed}} = 0.1637$$

TABLE 3

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF SALMON FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Keswick to Red Bluff (Area 1)  
1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Salmon Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	0	0	0	0	0
OCT 1968	48	145	18	3.021	0.375
NOV 1968	98	434	41	4.426	0.418
DEC 1968	21	110	7	5.238	0.333
JAN 1969	85	354	29	4.165	0.341
FEB 1969	52	177	11	3.404	0.211
MAR 1969	1,027	5,493	179	5.348	0.174
APR 1969	1,029	5,352	213	5.201	0.207
MAY 1969	127	635	27	5.000	0.212
JUN 1969	5	17	1	3.400	0.200
SEP 1969	2	8	1	4.000	0.500
OCT 1969	153	731	88	4.777	0.575
NOV 1969	189	914	46	4.836	0.243
DEC 1969	0	0	0	0	0
SEP 1970	346	1,531	53	4.425	0.153
OCT 1970	480	2,525	134	5.260	0.279
NOV 1970	188	867	24	4.612	0.128
DEC 1970	0	0	0	0.000	0.000
SEP 1971	315	1,534	60	4.870	0.190
OCT 1971	530	2,662	127	5.022	0.239
NOV 1971	343	1,570	64	4.577	0.186
DEC 1971	112	469	28	4.187	0.250
JAN 1972	270	1,124	56	4.163	0.207
FEB 1972	365	1,778	45	4.871	0.123
JAN 1973	45	224	27	4.977	0.600
FEB 1973	155	646	54	4.168	0.348
MAR 1973	459	2,264	126	4.932	0.274
APR 1973	523	2,864	113	5.476	0.216
SEP 1974	181	508	126	2.806	0.696
OCT 1974	195	691	128	3.544	0.656
NOV 1974	76	295	34	3.882	0.447
DEC 1974	46	126	20	2.761	0.435
TOTALS	7,465	36,048	1,880		

$$\frac{\text{Σ Salmon Catch}}{\text{Σ No. Anglers Interviewed}} = 0.2518$$

TABLE 4

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF SALMON FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Red Bluff to Hamilton City (Area 2)  
1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Salmon Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	22	65	2	2.955	0.091
OCT 1968	11	30	2	2.727	0.182
NOV 1968	24	151	14	6.292	0.583
DEC	23	126	6	5.478	0.261
JAN 1969	9	36	0	4.000	0.000
FEB 1969	0	0	0	0.000	0.000
MAR 1969	368	1,702	129	4.625	0.350
APR 1969	216	1,075	84	4.977	0.389
MAY 1969	81	306	11	3.778	0.136
JUN 1969	2	7	0	3.500	0.000
SEP 1969	88	423	19	4.807	0.216
OCT 1969	101	546	32	5.406	0.317
NOV 1969	79	326	17	4.126	0.215
DEC 1969	38	238	21	6.236	0.553
SEP 1970	143	595	23	4.162	0.161
OCT 1970	176	711	21	4.040	0.119
NOV 1970	18	59	3	3.278	0.167
DEC 1970	30	142	5	4.734	0.167
SEP 1971	127	557	10	4.386	0.079
OCT 1971	295	1,142	29	3.871	0.098
NOV 1971	190	902	29	4.747	0.153
DEC 1971	83	333	15	4.012	0.181
JAN 1972	706	3,354	174	4.751	0.246
FEB 1972	1,057	5,172	150	4.893	0.142
JAN 1973	26	92	4	3.538	0.154
FEB 1973	188	892	37	4.745	0.197
MAR 1973	750	4,398	201	5.864	0.268
APR 1973	226	1,357	17	6.004	0.075
SEP 1974	161	580	24	3.602	0.149
OCT 1974	298	1,204	26	4.040	0.087
NOV 1974	113	472	3	4.177	0.026
DEC 1974	68	309	1	4.544	0.015
TOTALS	5,717	27,302	1,109		

$$\frac{\sum \text{Salmon Catch}}{\sum \text{No. Anglers Interviewed}} = 0.1940$$

TABLE 5

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF SALMON FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Hamilton City to Knights Landing (Area 3)  
1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Salmon Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	1,129	639	30	4.953	0.232
OCT 1968	544	2,993	91	5.502	0.167
NOV 1968	291	1,589	77	5.460	0.265
DEC 1968	188	1,114	65	5.925	0.346
JAN 1969	92	544	22	5.913	0.239
FEB 1969	32	156	5	4.875	0.156
MAR 1969	388	2,159	235	5.564	0.606
APR 1969	225	1,370	73	6.089	0.324
MAY 1969	288	1,815	90	6.302	0.312
JUN 1969	71	439	22	6.183	0.310
SEP 1969	326	2,361	183	7.242	0.561
OCT 1969	481	3,293	209	6.846	0.434
NOV 1969	574	3,591	308	6.256	0.362
DEC 1969	222	1,436	98	6.468	0.441
SEP 1970	316	1,800	113	5.696	0.357
OCT 1970	786	4,540	152	5.776	0.193
NOV 1970	234	1,317	36	5.628	0.154
DEC 1970	42	216	11	5.143	0.262
SEP 1971	383	2,042	46	5.332	0.120
OCT 1971	889	4,483	72	5.043	0.081
NOV 1971	594	3,027	63	5.096	0.106
DEC 1971	310	1,589	40	5.125	0.129
JAN 1972	628	3,226	120	5.137	0.191
FEB 1972	584	3,142	102	5.380	0.175
JAN 1973	34	70	0	2.058	0.000
FEB 1973	187	668	8	3.572	0.043
MAR 1973	690	3,613	58	5.236	0.084
APR 1973	414	2,089	17	5.046	0.041
SEP 1974	240	670	11	2.792	0.046
OCT 1974	240	1,794	13	3.030	0.022
NOV 1974	648	2,367	18	3.652	0.027
DEC 1974	393	1,415	8	3.600	0.020
TOTALS	11,815	61,567	2,296		

$$\frac{\sum \text{Salmon Catch}}{\sum \text{No. Anglers Interviewed}} = 0.1943$$

TABLE 6

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF SALMON FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Knights Landing to Rio Vista (Area 4)  
1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Salmon Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	259	1,088	32	4.201	0.123
OCT 1968	1,668	8,238	249	4.939	0.149
NOV 1968	921	4,064	74	4.412	0.080
DEC 1968	37	106	0	2.865	0.000
JAN 1969	0	0	0	0	0
FEB 1969	0	0	0	0	0
MAR 1969	0	0	0	0	0
APR 1969	0	0	0	0	0
MAY 1969	0	0	0	0	0
JUN 1969	0	0	0	0	0
SEP 1969	778	3,460	161	4.447	0.207
OCT 1969	2,093	10,101	450	4.826	0.215
NOV 1969	1,147	4,904	103	4.275	0.090
DEC 1969	22	81	3	3.682	0.136
SEP 1970	901	3,979	79	4.416	0.088
OCT 1970	3,392	17,346	434	5.114	0.128
NOV 1970	1,258	5,685	111	4.519	0.088
DEC 1970	0	0	0	0	0
SEP 1971	741	3,113	47	4.201	0.063
OCT 1971	3,256	15,936	398	4.894	0.122
NOV 1971	863	3,954	74	4.582	0.086
DEC 1971	12	42	0	4.666	0
JAN 1972	106	485	4	4.575	0.038
FEB 1972	34	148	3	4.353	0.088
JAN 1973	-	-	-	-	-
FEB 1973	4	6	1	1.500	0.250
MAR 1973	15	43	0	2.867	0.000
APR 1973	56	136	1	2.428	0.018
SEP 1974	1,425	3,605	99	2.529	0.069
OCT 1974	3,121	8,412	238	2.695	0.076
NOV 1974	1,007	2,415	37	2.397	0.036
DEC 1974	35	57	0	1.628	0.000
TOTALS	23,151	97,404	2,598		

$$\frac{\Sigma \text{ Salmon Catch}}{\Sigma \text{ No. Anglers Interviewed}} = 0.1122$$

TABLE 7

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1967</u>			Total	<u>1968</u>			Total
	Ramp	Resort	Total	Angler Days	Ramp	Resort	Total	Angler Days
<u>JULY</u>								
Area 1	6	11	17	68	136	229	365	1,450
2	5	8	13	67	242	430	672	3,464
3	20	30	50	257	157	245	402	2,069
4	16	35	51	454	221	490	711	6,337
Sacramento River Total	47	84	131	846	756	1,394	2,150	13,320
<u>AUGUST</u>								
Area 1	21	34	55	218	313	527	840	3,336
2	15	27	42	216	261	463	724	3,732
3	63	99	162	834	246	385	631	3,247
4	52	115	167	1,488	0	1	1	9
Sacramento River Total	151	275	426	2,756	820	1,376	2,196	10,324
<u>SEPTEMBER</u>								
Area 1	75	127	202	802	1,208	2,032	3,240	12,867
2	56	100	156	804	414	735	1,149	5,923
3	234	366	600	3,088	270	423	693	3,566
4	192	424	616	5,490	33	73	106	945
Sacramento River Total	557	1,017	1,574	10,184	1,925	3,263	5,188	23,301
<u>OCTOBER</u>								
Area 1	71	120	191	758	578	973	1,551	6,160
2	65	115	180	928	35	62	97	500
3	370	579	949	4,884	43	67	110	566
4	687	1,520	2,207	19,670	59	130	189	1,684
Sacramento River Total	1,193	2,334	3,527	26,240	715	1,232	1,947	8,910
<u>NOVEMBER</u>								
Area 1	139	234	373	1,481	84	142	226	898
2	53	95	148	763	19	34	53	273
3	267	417	684	3,520	79	124	203	1,045
4	375	830	1,205	10,740	1	2	3	27
Sacramento River Total	834	1,576	2,410	16,504	183	302	485	2,243
<u>DECEMBER</u>								
Area 1	113	190	303	1,203	0	0	0	0
2	109	193	302	1,557	6	10	16	82
3	325	508	833	4,287	38	59	97	499
4	425	940	1,365	12,166	0	1	1	9
Sacramento River Total	972	1,831	2,803	19,213	44	70	114	590
6 Mo. Total	3,754	7,117	10,871	75,743	4,443	7,637	12,680	58,688

TABLE 8

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1968			1969				
	Ramp	C A T C H		Total	Ramp	C A T C H		Total
	Ramp	Resort	Total	Total Angler Days	Ramp	Resort	Total	Total Angler Days
<u>JULY</u>								
Area 1	5	8	13	52	114	82	196	574*
2	9	16	25	129	0	0	0	0*
3	33	51	84	432	72	18	90	377*
4	11	24	35	312	3	6	9	80
Sacramento River Total	58	99	157	925	189	106	295	1,031
<u>AUGUST</u>								
Area 1	40	67	107	425	32	36	68	322*
2	8	14	22	113	0	0	0	0*
3	109	171	280	1,441	19	4	23	147*
4	15	34	49	437	0	0	0	0*
Sacramento River Total	172	286	458	2,416	51	40	91	469
<u>SEPTEMBER</u>								
Area 1	1	1	2	8	460	898	1,358	7,804*
2	2	83	85	934*	351	987	1,338	3,823*
3	61	392	453	1,952*	740	320	1,060	1,749*
4	54	475	529	4,301*	7	15	22	196
Sacramento River Total	118	951	1,069	7,195	1,558	2,220	3,778	13,572
<u>OCTOBER</u>								
Area 1	51	48	99	264*	737	1,465	2,202	10,638*
2	6	112	118	648*	221	303	524	1,347*
3	287	486	773	4,629*	226	9	235	725*
4	767	1,997	2,764	18,549*	29	65	94	838
Sacramento River Total	1,111	2,643	3,754	24,090	1,213	1,842	3,055	13,548
<u>NOVEMBER</u>								
Area 1	106	40	146	349*	116	259	375	1,769*
2	28	63	91	156*	22	126	148	1,088*
3	253	359	612	2,309*	264	5	269	862*
4	168	240	408	5,100*	5	12	17	151
Sacramento River Total	555	702	1,257	7,914	407	402	809	3,870
<u>DECEMBER</u>								
Area 1	11	0	11	33*	1	189	190	950*
2	9	40	49	188*	0	3	3	15*
3	225	155	380	1,098*	50	6	56	181*
4	0	46	46	410	0	1	1	9
Sacramento River Total	245	241	486	1,729	51	199	250	1,155
6 Mo. Total	2,259	4,922	7,181	44,269	3,469	4,809	8,278	33,645

\* See note page 5 of text.

TABLE 9

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1969</u>			<u>1970</u>				
	Ramp	Resort	Total	Total	Ramp	Resort	Total	
		<u>JULY</u>		<u>Angler Days</u>		<u>JANUARY</u>		<u>Angler Days</u>
Area 1	2	4	6	24	4	6	10	40
2	4	8	12	62	0	0	0	0
3	5	8	13	67	0	0	0	0
4	0	1	1	9	0	0	0	0
Sacramento River Total	11	21	32	162	4	6	10	40
		<u>AUGUST</u>				<u>FEBRUARY</u>		
Area 1	81	137	218	866	32	54	86	342
2	32	56	88	454	1	1	2	10
3	79	123	202	1,039	0	0	0	0
4	9	19	28	250	0	0	0	0
Sacramento River Total	201	335	536	2,609	33	55	88	352
		<u>SEPTEMBER</u>				<u>MARCH</u>		
Area 1	2	222	224	448*	378	636	1,014	4,027
2	77	196	273	1,264*	158	281	439	2,263
3	493	787	1,280	2,281*	3	5	8	41
4	406	975	1,381	6,672*	41	90	131	1,168
Sacramento River Total	978	2,180	3,158	10,665	580	1,012	1,592	7,499
		<u>OCTOBER</u>				<u>APRIL</u>		
Area 1	327	478	805	1,400*	365	615	980	3,892
2	138	261	399	1,258*	129	229	358	1,845
3	670	1,128	1,798	4,142*	35	55	90	463
4	1,313	1,465	2,778	12,920*	84	186	270	2,406
Sacramento River Total	2,448	3,332	5,780	19,720	613	1,085	1,698	8,606
		<u>NOVEMBER</u>				<u>MAY</u>		
Area 1	152	313	465	1,913*	110	186	296	1,176
2	79	90	169	786*	23	41	64	330
3	646	858	1,504	4,154*	19	29	48	247
4	293	807	1,100	12,222*	10	23	33	294
Sacramento River Total	1,170	2,068	3,238	19,075	162	279	441	2,047
		<u>DECEMBER</u>				<u>JUNE</u>		
Area 1	2	4	6	.24	1	1	2	8
2	99	13	112	202*	1	1	2	10
3	373	187	560	1,269*	0	0	0	0
4	12	237	249	1,831*	4	10	14	125
Sacramento River Total	486	441	927	3,326	6	12	18	143
6 Mo. Total	5,294	8,377	13,671	55,557	1,398	2,449	3,847	18,687

\* See note, page 5 of text.

TABLE 10

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1970</u>			<u>1971</u>				
	Ramp	<u>C A T C H</u>	Total	Total	Ramp	<u>C A T C H</u>	Total	
		Resort	Total	Angler Days		Resort	Total	Angler Days
<u>JULY</u>								
Area 1	44	74	118	469	161	271	432	1,716
2	13	23	36	186	66	117	183	943
3	8	12	20	103	43	68	111	571
4	19	43	62	552	5	12	17	152
Sacramento River Total	84	152	236	1,310	275	468	743	3,382
<u>AUGUST</u>								
Area 1	161	271	432	1,716	524	881	1,405	5,580
2	32	57	89	459	919	1,630	2,549	13,140
3	57	90	147	756	374	585	959	4,935
4	42	92	134	1,194	61	136	197	1,756
Sacramento River Total	292	510	802	3,045 415	1,878	3,232	5,110	25,411
<u>SEPTEMBER</u>								
Area 1	170	609	779	5,092*	547	920	1,467	5,826
2	99	107	206	1,279*	280	497	777	4,005
3	355	504	859	2,406*	251	392	643	3,309
4	259	654	913	10,375*	135	298	433	3,859
Sacramento River Total	883	1,874	2,757	19,152	1,213	2,107	3,320	16,999
<u>OCTOBER</u>								
Area 1	396	1,104	1,500	5,376*	228	384	612	2,430
2	87	129	216	1,815*	134	237	371	1,912
3	436	1,150	1,586	8,217*	41	65	106	545
4	1,438	2,853	4,291	33,521*	30	67	97	864
Sacramento River Total	2,357	5,236	7,593	48,929	433	753	1,186	5,751
<u>NOVEMBER</u>								
Area 1	82	317	399	3,117*	31	53	84	334
2	6	31	37	222*	49	87	136	701
3	99	103	202	1,312*	19	30	49	252
4	279	189	468	5,318*	4	8	12	107
Sacramento River Total	466	640	1,106	9,969	103	178	281	1,394
<u>DECEMBER</u>								
Area 1	0	3	3	14*	0	0	0	0
2	16	17	33	198*	9	17	26	134
3	34	11	45	172*	10	15	25	129
4	0	29	29	131*	5	12	17	152
Sacramento River Total	50	60	110	515	24	44	68	415
6 Mo. Total	4,132	8,472	12,604	82,920	3,926	6,782	10,708	53,352
				+ 1080				
				84000				

\* See note, page 5 of text.

TABLE 11  
KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1971						1972					
	Ramp	C A T C H		Total Angler Days	Ramp	C A T C H		Total Angler Days	Ramp	C A T C H		Total Angler Days
		Resort	Total			Resort	Total			Resort	Total	
<u>JULY</u>												
Area 1	24	40	64	254		162	93	255		1,232*		
2	5	9	14	72		498	918	1,416		5,756*		
3	7	11	18	93		332	785	1,117		5,847*		
4	3	6	9	80		14	1,084	1,098		28,895*		
Sacramento River Total	39	66	105	499		1,006	2,880	3,886		41,730		
<u>AUGUST</u>												
Area 1	78	132	210	834		160	94	254		2,065*		
2	29	52	81	418		527	1,053	1,580		11,126*		
3	63	99	162	834		340	760	1,100		6,285*		
4	36	79	115	1,025		7	826	833		9,466*		
Sacramento River Total	206	362	568	3,111		1,034	2,733	3,767		28,942		
<u>SEPTEMBER</u>												
Area 1	214	632	846	4,452*		248	417	665		2,641		
2	26	107	133	1,684*		175	310	485		2,500		
3	139	530	669	5,575*		75	117	192		988		
4	158	767	925	14,682*		22	48	70		624		
Sacramento River Total	537	2,036	2,573	26,393		520	892	1,412		6,753		
<u>OCTOBER</u>												
Area 1	490	904	1,394	5,832*		115	193	308		1,223		
2	81	208	289	2,949*		13	23	36		186		
3	242	913	1,155	14,258*		41	64	105		540		
4	1,375	3,285	4,660	38,193*		6	14	20		178		
Sacramento River Total	2,188	5,310	7,498	61,232		175	294	469		2,127		
<u>NOVEMBER</u>												
Area 1	279	410	689	3,704*		15	26	41		163		
2	94	120	214	1,399*		3	6	9		46		
3	189	673	862	8,132*		5	8	13		67		
4	316	514	830	9,651*		1	3	4		36		
Sacramento River Total	878	1,717	2,595	22,886		24	43	67		312		
<u>DECEMBER</u>												
Area 1	87	164	251	1,004*		4	7	11		44		
2	52	140	192	1,061*		3	6	9		46		
3	121	296	417	3,232*		6	9	15		77		
4	0	480	480	4,278*		1	2	3		27		
Sacramento River Total	260	1,080	1,340	9,575		14	24	38		194		
6 Mo. Total	4,108	10,571	14,679	123,696		2,773	6,866	9,639		80,058		

\* See note, page 5 of text.

TABLE 12

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1972</u>			Total	<u>1973</u>			Total
	Ramp	Resort	Total	Angler Days	Ramp	Resort	Total	Angler Days
<u>JULY</u>								
Area 1	38	64	102	405	66	124	190	317*
2	37	65	102	526	33	63	96	623*
3	36	56	92	473	44	82	126	441*
4	1	2	3	27	44	97	141	1,257
Sacramento River Total	112	187	299	1,431	187	366	553	2,638
<u>AUGUST</u>								
Area 1	180	302	482	1,914	144	116	260	747*
2	41	73	114	588	122	218	340	1,726*
3	82	129	211	1,086	22	32	54	1,256*
4	29	65	94	838	5	0	5	20*
Sacramento River Total	332	569	901	4,426	293	366	659	3,749
<u>SEPTEMBER</u>								
Area 1	225	378	603	2,395	390	323	713	2,602*
2	112	199	311	1,603	719	540	1,259	4,697*
3	231	361	592	3,046	218	182	400	4,762*
4	285	631	916	8,164	0	8	8	71
Sacramento River Total	853	1,569	2,422	15,208	1,327	1,053	2,380	12,132
<u>OCTOBER</u>								
Area 1	423	711	1,134	4,504	565	664	1,229	5,690*
2	87	154	241	1,242	94	144	238	3,173*
3	377	590	967	4,976	69	50	119	2,902*
4	682	1,509	2,191	19,527	25	57	82	4,555*
Sacramento River Total	1,569	2,964	4,533	30,249	753	915	1,668	16,320
<u>NOVEMBER</u>								
Area 1	75	126	201	798	97	164	261	1,036
2	36	64	100	515	9	16	25	129
3	100	157	257	1,322	10	15	25	129
4	131	289	420	3,743	1	2	3	27
Sacramento River Total	342	636	978	6,378	117	197	314	1,321
<u>DECEMBER</u>								
Area 1	12	20	32	127	11	18	29	115
2	42	74	116	598	8	15	23	118
3	51	80	131	674	12	18	30	154
4	153	338	491	4,376	14	32	46	410
Sacramento River Total	258	512	770	5,775	45	83	128	797
6 Mo. Total	3,466	6,437	9,903	63,467	2,722	2,980	5,702	36,957

\* See note, page 5 of text.

TABLE 13

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1973</u>			Total	<u>1974</u>			Total
	Ramp	Resort	Total	Angler Days	Ramp	Resort	Total	Angler Days
<u>JULY</u>								
Area 1	31	52	83	330	24	41	65	258
2	20	36	56	289	53	94	147	758
3	17	27	44	226	31	49	80	412
4	92	203	295	2,629	32	70	102	909
Sacramento River Total	160	318	478	3,474	140	254	394	2,337
<u>AUGUST</u>								
Area 1	159	267	426	1,692	35	59	94	373
2	53	94	147	758	47	83	130	670
3	71	111	182	936	49	77	126	648
4	30	67	97	864	142	315	457	4,073
Sacramento River Total	313	539	852	4,250	273	534	807	5,764
<u>SEPTEMBER</u>								
Area 1	350	589	939	3,729		**		
2	51	91	142	732		**		
3	295	462	757	3,896		**		
4	660	1,462	2,122	18,912		**		
Sacramento River Total	1,356	2,604	3,960	27,269				
<u>OCTOBER</u>								
Area 1	460	774	1,234	4,901		**		
2	41	73	114	588		**		
3	285	446	731	3,762		**		
4	1,188	2,629	3,817	34,019		**		
Sacramento River Total	1,974	3,922	5,896	43,270				
<u>NOVEMBER</u>								
Area 1	61	102	163	647		**		
2	11	19	30	155		**		
3	20	31	51	262		**		
4	42	94	136	1,212		**		
Sacramento River Total	134	246	380	2,276		..		
<u>DECEMBER</u>								
Area 1	24	41	65	258		**		
2	20	35	55	284		**		
3	1	2	3	15		**		
4	2	5	7	62		**		
Sacramento River Total	47	83	130	619				
6 Mo. Total	3,984	7,712	11,696	81,158	413	788	1,201	8,101

\* See note, page 5 of text.

\*\* No resort records available.

TABLE 14

KING SALMON ESTIMATED RAMP and BANK CATCH, RESORT CATCH,  
TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1974</u>			Total	<u>1975</u>			Total
	Ramp	Resort	Total	Angler Days	Ramp	Resort	Total	Angler Days
<u>JULY</u>								
Area 1	39	66	105	417	52	88	140	556
2	15	26	41	211	88	156	244	1,258
3	11	17	28	144	176	276	452	2,326
4	8	17	25	223	19	43	62	552
Sacramento River Total	73	126	199	995	335	563	898	4,692
<u>AUGUST</u>								
Area 1	72	121	193	766	20	33	53	210
2	27	48	75	387	31	55	86	443
3	20	31	51	262	15	24	39	201
4	14	31	45	401	1	2	3	27
Sacramento River Total	133	231	364	1,816	67	114	181	881
<u>SEPTEMBER</u>								
Area 1	371	256	627	901*	59	99	158	627
2	78	209	287	1,926*	13	23	36	186
3	26	105	131	2,848*	4	6	10	51
4	201	166	367	5,280*	0	0	0	0
Sacramento River Total	676	736	1,412	10,955	76	128	204	864
<u>OCTOBER</u>								
Area 1	439	441	880	1,341*	203	342	545	2,164
2	79	111	190	2,184*	111	197	308	1,588
3	43	121	164	7,454*	53	83	136	700
4	849	435	1,284	16,893*	3	6	9	80
Sacramento River Total	1,410	1,108	2,518	27,872	370	628	998	4,532
<u>NOVEMBER</u>								
Area 1	93	185	278	622*	46	78	124	492
2	6	20	26	1,000*	61	108	169	871
3	56	63	119	4,407*	6	9	15	77
4	96	70	166	4,611*	4	8	12	107
Sacramento River Total	251	338	589	10,640	117	203	320	1,547
<u>DECEMBER</u>								
Area 1	50	70	120	276*	9	15	24	95
2	5	69	74	4,933*	6	10	16	82
3	28	144	172	8,600*	8	13	21	108
4	0	24	24	214*	7	15	22	196
Sacramento River Total	83	307	390	14,023	30	53	83	481
6 Mo. Total	2,626	2,846	5,472	66,301	995	1,689	2,684	12,997

\* See note, page 5 of text.

TABLE 15  
STEELHEAD RESORT CATCH and ESTIMATED RAMP CATCH\*  
1968 - 1974

Month	Area 1		Area 2		Area 3		Area 4	
	Ramp	Resort	Ramp	Resort	Ramp	Resort	Ramp	Resort
Sep 1968	2	233	27	172	157	997	42	828
OCT 1968	405	497	149	590	614	1,577	82	1,754
NOV 1968	371	338	117	115	367	534	116	538
DEC 1968	4	28	11	15	374	104	41	120
JAN 1969	10	8	0	6	95	6	6	3
FEB 1969	12	4	0	20	59	9	0	0
MAR 1969	15	0	5	11	43	9	0	37
APR 1969	0	2	5	8	28	2	0	28
MAY 1969	22	0	0	2	0	0	0	3
JUN 1969	1	0	0	9	0	0	0	1
SEP 1969	50	560	208	284	438	981	47	664
OCT 1969	893	1,533	335	1,265	756	1,890	221	2,392
NOV 1969	282	581	254	349	396	498	172	831
DEC 1969	3	173	141	56	72	68	8	84
SEP 1970	341	294	182	174	550	589	15	967
OCT 1970	987	1,216	189	929	428	829	9	1,089
NOV 1970	159	374	38	112	101	137	20	185
DEC 1970	8	94	63	11	5	1	0	15
SEP 1971	143	156	26	103	214	615	34	1,855
OCT 1971	429	623	170	693	197	1,053	136	2,497
NOV 1971	221	552	153	280	141	444	80	807
DEC 1971	29	143	18	51	16	75	8	153
JAN 1972	67	58	20	22	27	29	6	38
FEB 1972	36	6	27	28	16	4	2	428
JAN 1973	39	34	30	22	8	8	17	15
FEB 1973	53	8	40	18	0	0	5	0
MAR 1973	129	6	60	2	4	1	3	8
APR 1973	79	0	56	19	4	2	25	16
SEP 1974	220	132	40	217	68	52	64	218
OCT 1974	349	193	185	248	142	46	101	315
NOV 1974	142	45	86	26	141	52	22	44
DEC 1974	22	2	35	61	12	37	0	56
TOTAL	5,523	7,893	2,670	5,918	5,475	10,649	1,282	15,989

$$\frac{\text{Ramp}}{\text{Resort}} = 0.6997 \quad 0.4512 \quad 0.5141 \quad 0.0802$$

\* Estimate includes only steelhead landed at the area sampled

TABLE 15A (NOT RELEVANT TO REPORT)

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF STEELHEAD FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Keswick to Rio Vista

1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Steelhead Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	356	1,505	95	4.227	0.267
OCT 1968	1,342	5,534	430	4.124	0.320
NOV 1968	1,502	5.679	357	3.781	0.238
DEC 1968	253	1,096	134	4.332	0.530
JAN 1969	85	333	37	3.918	0.435
FEB 1969	65	256	20	1.938	0.308
MAR 1969	117	416	18	3.555	0.154
APR 1969	34	116	7	3.412	0.206
MAY 1969	187	562	8	3.005	0.043
JUN 1969	17	54	1	3.176	0.059
SEP 1969	778	3,573	256	4.592	0.329
OCT 1969	1,614	7,008	679	4.342	0.421
NOV 1969	1,191	4,722	333	3.964	0.279
DEC 1969	69	344	42	4.986	0.609
SEP 1970	1,313	4,953	327	3.772	0.249
OCT 1970	2,009	7,978	564	3.971	0.281
NOV 1970	668	2,434	142	3.643	0.213
DEC 1970	45	165	26	3.667	0.578
SEP 1971	991	3,523	135	3.550	0.136
OCT 1971	1,609	6,443	306	4.004	0.190
NOV 1971	1,232	4,914	188	3.988	0.152
DEC 1971	260	789	27	3.046	0.104
JAN 1972	326	998	44	3.061	0.135
FEB 1972	272	784	23	2.882	0.084
JAN 1973	48	112	14	2,333	0.291
FEB 1973	125	342	32	2.736	0.256
MAR 1973	270	805	68	2.981	0.252
APR 1973	142	480	40	3.380	0.282
SEP 1974	1,984	5,071	137	2.556	0.069
OCT 1974	4,530	12,267	233	2.708	0.051
NOV 1974	2,041	5,160	154	2.528	0.075
DEC 1974	379	944	22	2.490	0.058
TOTALS	25,854	89,360	4,899	"	

$$\frac{\sum \text{Steelhead Catch}}{\sum \text{No. Anglers Interviewed}} = 0.1887$$

TABLE 16

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF STEELHEAD FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Keswick to Red Bluff (Area 1)					
1968 - 1974					
<u>Month</u>	No. Anglers <u>Interviewed</u>	Hours <u>Fished</u>	Steelhead <u>Catch</u>	Hours per <u>Angler Day</u>	Catch per <u>Angler Day</u>
SEP 1968	4	17	1	4.250	0.250
OCT 1968	469	1,753	133	3.738	0.284
NOV 1968	717	2,280	139	3.180	0.194
DEC 1968	59	150	4	2.542	0.068
JAN 1969	33	100	3	3.030	0.091
FEB 1969	34	106	4	3.118	0.118
MAR 1969	94	304	5	3.234	0.053
APR 1969	26	87	0	3.346	0.000
MAY 1969	180	544	8	3.022	0.044
JUN 1969	17	54	1	3.176	0.059
SEP 1969	35	106	25	3.028	0.714
OCT 1969	834	3,215	290	3.855	0.348
NOV 1969	594	2,079	104	3.500	0.175
DEC 1969	0	0	0	0.000	0.000
SEP 1970	681	2,270	107	3.333	0.157
OCT 1970	1,274	5,012	338	3.934	0.265
NOV 1970	476	1,590	73	3.340	0.153
DEC 1970	17	39	4	2.294	0.235
SEP 1971	465	1,708	45	3.673	0.097
OCT 1971	782	3,572	150	4.568	0.192
NOV 1971	480	1,605	64	3.344	0.133
DEC 1971	126	350	13	2.778	0.103
JAN 1972	133	302	26	2.270	0.195
FEB 1972	104	256	10	2.461	0.096
JAN 1973	43	92	10	2.139	0.232
FEB 1973	103	278	23	2.699	0.233
MAR 1973	236	681	52	2.885	0.220
APR 1973	111	356	31	3.207	0.279
SEP 1974	163	422	79	2.589	0.484
OCT 1974	347	925	106	2.666	0.305
NOV 1974	250	650	50	2.600	0.200
DEC 1974	70	171	4	2.443	0.057
TOTALS	8,957	31,074	1,902		

$$\frac{\sum \text{Steelhead Catch}}{\sum \text{No. Anglers Interviewed}} = 0.2123$$

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF STEELHEAD FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

Red Bluff to Hamilton City (Area 2)

1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Steelhead Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	141	573	16	4.064	0.113
OCT 1968	261	1,072	60	4.107	0.230
NOV 1968	177	810	62	4.576	0.350
DEC 1968	30	138	11	4.600	0.367
JAN 1969	1	2	0	2.000	0.000
FEB 1969	0	0	0	0.000	0.000
MAR 1969	5	24	8	4.800	1.600
APR 1969	5	11	1	2.200	0.200
MAY 1969	7	18	0	2.571	0.000
JUN 1969	0	0	0	0.000	0.000
SEP 1969	212	958	56	4.519	0.264
OCT 1969	193	914	88	4.736	0.456
NOV 1969	166	718	58	4.325	0.349
DEC 1969	44	230	28	5.227	0.636
SEP 1970	229	899	48	3.926	0.210
OCT 1970	330	1,183	67	3.585	0.203
NOV 1970	70	267	20	3.814	0.286
DEC 1970	25	120	21	4.800	0.840
SEP 1971	140	458	9	3.271	0.064
OCT 1971	278	897	50	3.227	0.180
NOV 1971	232	907	48	3.909	0.207
DEC 1971	64	226	4	3.531	0.062
JAN 1972	90	306	6	3.400	0.066
FEB 1972	86	282	7	3.279	0.081
JAN 1973	5	20	4	4.000	0.800
FEB 1973	15	50	8	3.333	0.533
MAR 1973	16	60	12	3.750	0.750
APR 1973	15	64	5	4.266	0.333
SEP 1974	93	315	15	3.387	0.161
OCT 1974	269	1,001	52	3.721	0.193
NOV 1974	185	620	38	3.351	0.205
DEC 1974	78	319	14	4.090	0.179
TOTALS	3,462	13,462	816		

$$\frac{\text{Σ Steelhead Catch}}{\text{Σ No. Anglers Interviewed}} = 0.2357$$

TABLE 18

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF STEELHEAD FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

## Hamilton City to Knights Landing (Area 3)

1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Steelhead Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	158	721	66	4.563	0.418
OCT 1968	532	2,390	208	4.492	0.391
NOV 1968	321	1,426	112	4.442	0.349
DEC 1968	103	568	105	5.514	1.019
JAN 1969	29	147	31	5.069	1.069
FEB 1969	31	150	16	4.839	0.516
MAR 1969	18	88	5	4.889	0.278
APR 1969	3	18	6	6.000	2.000
MAY 1969	0	0	0	0.000	0.000
JUN 1969	0	0	0	0.000	0.000
SEP 1969	476	2,297	156	4.825	0.328
OCT 1969	392	2,010	228	5.127	0.582
NOV 1969	217	1,015	121	4.677	0.557
DEC 1969	17	81	12	4.765	0.706
SEP 1970	368	1,654	166	4.495	0.451
OCT 1970	367	1,618	154	4.409	0.419
NOV 1970	99	455	40	4.596	0.404
DEC 1970	3	6	1	2.000	0.333
SEP 1971	338	1,146	69	3.390	0.204
OCT 1971	455	1,604	62	3.525	0.136
NOV 1971	225	764	46	3.395	0.204
DEC 1971	54	149	6	2.759	0.111
JAN 1972	65	215	9	3.308	0.138
FEB 1972	64	175	5	2.734	0.078
JAN 1973	0	0	0	0.000	0.000
FEB 1973	2	4	0	2.000	0.000
MAR 1973	9	17	2	1.888	0.222
APR 1973	6	15	2	2.500	0.333
SEP 1974	303	729	23	2.406	0.076
OCT 1974	794	1,930	44	2.430	0.055
NOV 1974	638	1,576	58	2.470	0.091
DEC 1974	196	397	4	2.025	0.020
TOTALS	6,283	23,365	1,757		

$$\frac{\sum \text{Steelhead Catch}}{\sum \text{No. Anglers Interviewed}} = 0.2796$$

TABLE 19

CATCH and EFFORT STATISTICS FROM INTERVIEWS OF STEELHEAD FISHERMEN  
AT SEVERAL BANK FISHING SITES and AT PUBLIC BOAT LAUNCHING RAMPS

## Knights Landing to Rio Vista (Area 4)

1968 - 1974

<u>Month</u>	<u>No. Anglers Interviewed</u>	<u>Hours Fished</u>	<u>Steelhead Catch</u>	<u>Hours per Angler Day</u>	<u>Catch per Angler Day</u>
SEP 1968	53	194	12	3.660	0.226
OCT 1968	80	319	29	3.987	0.362
NOV 1968	287	1,163	44	4.052	0.153
DEC 1968	61	240	14	3.934	0.229
JAN 1969	22	84	3	3.818	0.136
FEB 1969	0	0	0	0.000	0.000
MAR 1969	0	0	0	0.000	0.000
APR 1969	0	0	0	0.000	0.000
MAY 1969	0	0	0	0.000	0.000
JUN 1969	0	0	0	0.000	0.000
SEP 1969	55	212	19	3.854	0.345
OCT 1969	195	869	73	4.456	0.374
NOV 1969	214	910	50	4.252	0.234
DEC 1969	8	33	2	4.125	0.250
SEP 1970	35	130	6	3.714	0.171
OCT 1970	38	165	5	4.342	0.132
NOV 1970	23	122	9	5.304	0.391
DEC 1970	0	0	0	0.000	0.000
SEP 1971	48	211	12	4.396	0.250
OCT 1971	94	370	44	3.936	0.468
NOV 1971	295	1,638	30	5.552	0.102
DEC 1971	16	64	4	4.000	0.250
JAN 1972	38	175	3	4.605	0.079
FEB 1972	18	71	1	3.944	0.055
JAN 1973	0	0	0	0.000	0.000
FEB 1973	5	10	1	2.000	0.200
MAR 1973	9	47	2	5.222	0.222
APR 1973	10	45	2	4.500	0.200
SEP 1974	1,425	3,605	20	2.530	0.014
OCT 1974	3,120	8,411	31	2.696	0.010
NOV 1974	968	2,314	8	2.390	0.008
DEC 1974	35	57	0	1.628	0.000
TOTALS	7,152	21,459	424		

$$\frac{\sum \text{Steelhead Catch}}{\sum \text{No. Anglers Interviewed}} = 0.0593$$

TABLE 20

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1967						1968						Total Angler Days	
	Private Dock & Shore	C A T C H			Total Angler Days	Private Dock & Shore	C A T C H			Total Angler Days				
		Ramp	Resort	Total			Ramp	Resort	Total					
<u>JULY</u>														
Area 1	4	2	4	10	47	39	24	34	97	457				
2	2	1	2	5	21	67	31	69	167	708				
3	8	4	8	20	72	39	20	39	98	350				
4	3	0	4	7	118	102	11	143	256	4,317				
River Total	17	7	18	42	258	247	86	285	618	5,832				
<u>AUGUST</u>														
Area 1	74	46	65	185	871	49	30	43	122	575				
2	36	17	37	90	382	25	12	26	63	267				
3	157	80	155	392	1,402	51	26	50	127	454				
4	56	6	78	140	2,361	3	0	5	8	135				
River Total	323	149	335	807	5,016	128	68	124	320	1,431				
<u>SEPTEMBER</u>														
Area 1	390	241	344	975	4,592	10	6	9	25	118				
2	191	89	198	478	2,028	8	4	8	20	85				
3	829	422	822	2,073	7,414	51	26	50	127	454				
4	296	33	411	740	12,479	25	3	35	63	1,062				
River Total	1,706	785	1,775	4,266	26,513	94	39	102	235	1,719				
<u>OCTOBER</u>														
Area 1	881	544	777	2,202	10,372	5	3	4	12	56				
2	889	415	919	2,223	9,432	2	1	2	5	21				
3	1,543	786	1,528	3,857	13,794	4	2	4	10	36				
4	1,218	136	1,691	3,045	51,349	11	1	16	28	472				
River Total	4,531	1,881	4,915	11,327	84,947	22	7	26	55	585				
<u>NOVEMBER</u>														
Area 1	1,281	791	1,130	3,202	15,082	0	0	0	0	0				
2	587	274	607	1,468	6,228	1	1	1	1	13				
3	741	377	734	1,852	6,624	1	1	1	1	11				
4	928	103	1,289	2,320	39,123	0	0	0	0	0				
River Total	3,537	1,545	3,760	8,842	67,057	2	2	2	6	24				
<u>DECEMBER</u>														
Area 1	353	218	311	882	4,154	0	0	0	0	0				
2	250	220	155	625	2,652	0	0	0	0	0				
3	277	141	274	692	2,475	4	2	4	10	36				
4	285	32	395	712	12,007	0	0	0	0	0				
River Total	1,165	611	1,135	2,911	21,288	4	2	4	10	36				
6 mo. Total	11,279	4,978	11,938	28,195	205,079	497	204	543	1,244	9,627				

TABLE 21

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1968						1969						Total Angler Days	
	C A T C H			Total Angler Days	C A T C H			Total Angler Days				Total Angler Days		
	Private Dock & Shore	Ramp	Resort		Total	Private Dock & Shore	Ramp		Resort	Total	Private Dock & Shore			
<u>JULY</u>														
Area 1	8	5	7	20	94	12	10	8	30	330*				
2	1	1	1	3	13	4	0	6	10	42*				
3	0	0	0	0	0	67	95	6	168	157*				
4	2	0	3	5	84	6	6	3	15	110*				
River Total	11	6	11	28	191	89	111	23	223	639				
<u>AUGUST</u>														
Area 1	1	1	1	3	14	11	12	4	27	229*				
2	3	1	3	7	30	13	0	20	33	140*				
3	63	32	63	158	565	45	59	9	113	219*				
4	5	1	6	12	202	0	0	0	0	0*				
River Total	72	35	73	180	811	69	71	33	173	588				
<u>SEPTEMBER</u>														
Area 1	157	2	233	392	1,568*	10	15	0	25	472*				
2	133	27	172	332	2,938*	11	5	11	27	17*				
3	770	159	997	1,926	4,607*	35	43	9	87	313*				
4	580	42	828	1,450	6,416*	27	3	37	67	1,130				
River Total	1,640	230	2,230	4,100	15,529*	83	66	57	206	1,932				
<u>OCTOBER</u>														
Area 1	601	405	497	1,503	5,387*	1	0	2	3	14*				
2	493	149	590	1,232	5,357*	9	5	8	22	110*				
3	1,460	614	1,577	3,651	9,336*	20	28	2	50	25*				
4	1,224	82	1,754	3,060	8,452*	20	2	28	50	843				
River Total	3,778	1,250	4,418	9,446	28,532	50	35	40	125	992				
<u>NOVEMBER</u>														
Area 1	473	371	338	1,182	6,093*	15	22	0	37	841*				
2	155	117	115	387	1,106*	1	0	2	3	13*				
3	600	367	534	1,501	4,300*	0	0	0	0	0*				
4	436	116	538	1,090	7,124*	2	0	3	5	84				
River Total	1,664	971	1,525	4,160	18,623	18	22	5	45	938				
<u>DECEMBER</u>														
Area 1	22	4	28	54	794*	1	1	0	2	34*				
2	17	11	15	43	117*	6	0	9	15	64*				
3	319	374	104	797	787*	0	0	0	0	0				
4	107	41	120	268	1,170*	1	0	1	2	34				
River Total	465	430	267	1,162	2,868	8	1	10	19	132				
6 mo. Total	7,630	2,922	8,524	19,076	66,554	317	306	168	791	5,221				

\* See note, page 7 of text.

TABLE 22

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	<u>1969</u>						<u>1970</u>					
	Private Dock & Shore	C A T C H			Total Angler Days	Private Dock & Shore	C A T C H			Total Angler Days		
		Ramp	Resort	Total			Ramp	Resort	Total			
<u>JULY</u>												
Area 1	5	4	4	13	61	0	0	0	0	0	0	0
2	9	4	10	23	98	8	4	8	20	20	85	
3	4	2	4	10	36	10	5	10	25	25	89	
4	0	0	0	0	0	7	1	10	18	18	304	
River Total	18	10	18	46	195	25	10	28	63	478		
<u>AUGUST</u>												
Area 1	11	7	10	28	132	2	1	2	5	24		
2	47	22	49	118	501	2	1	2	5	21		
3	168	85	166	419	1,498	0	0	0	0	0	0	
4	4	0	6	10	169	0	0	0	0	0	0	
River Total	230	114	231	575	2,300	4	2	4	10	45		
<u>SEPTEMBER</u>												
Area 1	407	50	560	1,017	1,424*	0	0	0	0	0	0	0
2	328	208	284	820	3,106*	6	3	6	15	64		
3	946	438	981	2,365	7,211*	1	1	1	3	11		
4	474	47	664	1,185	3,434*	20	2	28	50	843		
River Total	2,155	743	2,489	5,387	15,175	27	6	35	68	918		
<u>OCTOBER</u>												
Area 1	1,617	893	1,533	4,043	11,615*	0	0	0	0	0	0	0
2	1,067	335	1,265	2,667	5,848*	2	1	2	5	21		
3	1,764	756	1,890	4,410	7,576*	22	11	22	55	197		
4	1,742	221	2,392	4,355	11,645	95	11	131	237	3,997		
River Total	6,190	2,205	7,080	15,475	36,684	119	23	155	297	4,215		
<u>NOVEMBER</u>												
Area 1	575	282	581	1,438	8,217*	0	0	0	0	0	0	0
2	402	254	349	1,005	2,879*	0	0	0	0	0	0	0
3	596	396	498	1,490	2,674*	4	2	4	10	36		
4	669	172	831	1,672	7,144*	10	1	14	25	422		
River Total	2,242	1,104	2,259	5,605	20,914	14	3	18	35	458		
<u>DECEMBER</u>												
Area 1	196	121	173	490	2,308	0	0	0	0	0	0	0
2	131	141	56	328	516*	7	3	7	17	72		
3	93	72	68	233	330*	0	0	0	0	0	0	
4	61	8	84	153	612*	3	0	5	8	135		
River Total	481	342	381	1,204	3,766	10	3	12	25	207		
6 mo. Total	11,316	4,518	12,458	28,292	79,034	199	47	252	498	6,321		

\* See note, page 7 of text.

TABLE 23

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

Private Dock & Shore	1970			Total Angler Days	1971			Total Angler Days		
	C A T C H				C A T C H					
	Ramp	Resort	Total		Ramp	Resort	Total			
<u>JULY</u>										
Area 1	0	0	0	0	21	13	18	52		
2	7	3	7	17	72	13	6	33		
3	2	1	2	5	18	5	3	13		
4	0	0	0	0	0	11	15	46		
River Total	9	4	9	22	90	50	23	125		
<u>AUGUST</u>										
Area 1	21	13	18	52	245	42	26	105		
2	51	24	53	128	543	19	9	48		
3	55	28	55	138	494	2	1	4		
4	19	2	26	47	793	75	8	188		
River Total	146	67	152	365	2,075	138	44	345		
<u>SEPTEMBER</u>										
Area 1	423	341	294	1,058	6,738*	7	4	17		
2	238	182	174	594	2,829*	23	11	58		
3	759	550	589	1,898	4,208*	0	0	0		
4	655	15	967	1,637	9,573*	61	7	153		
River Total	2,075	1,088	2,024	5,187	23,348	91	22	228		
<u>OCTOBER</u>										
Area 1	1,469	987	1,216	3,672	13,854*	0	0	0		
2	745	189	929	1,863	9,177*	1	1	3		
3	838	428	829	2,095	4,998*	1	1	3		
4	732	9	1,089	1,830	13,862	10	1	24		
River Total	3,784	1,613	4,063	9,460	41,891	12	3	30		
<u>NOVEMBER</u>										
Area 1	355	159	374	888	5,804*	0	0	0		
2	100	38	112	250	874*	2	1	5		
3	159	101	137	397	982*	1	1	3		
4	137	20	185	342	874*	1	0	2		
River Total	751	318	808	1,877	8,534	4	2	10		
<u>DECEMBER</u>										
Area 1	68	8	94	170	723*	7	4	17		
2	49	63	11	123	146*	60	28	150		
3	4	5	1	10	30*	7	7	61		
4	26	1	15	42	708	2	0	5		
River Total	147	77	121	345	1,607	76	35	189		
6 mo. Total	6,912	3,167	7,177	17,256	77,545	77,371	329	427		
					77,545	77,371				

\* See note , page 7 of text

TABLE 24

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1971						1972						Total Angler Days	
	Private Dock & Shore	C A T C H			Total Angler Days	Private Dock & Shore	C A T C H			Total Angler Days				
		Ramp	Resort	Total			Ramp	Resort	Total					
<u>JULY</u>														
Area 1	15	9	13	37	174	83	67	58	208	1,067*				
2	39	18	41	98	416	28	20	22	70	1,060*				
3	12	6	12	30	107	37	27	29	93	674*				
4	1	0	2	3	51	30	6	38	74	937*				
River Total	67	33	68	168	748	178	120	147	445	3,738				
<u>AUGUST</u>														
Area 1	3	2	3	8	38	28	36	6	70	729*				
2	41	19	43	103	437	37	27	28	92	1,136*				
3	21	11	21	53	190	13	16	4	33	423*				
4	21	2	29	52	877	287	2	428	717	13,036*				
River Total	86	34	96	216	1,542	365	81	466	912	15,324				
<u>SEPTEMBER</u>														
Area 1	198	143	156	497	5,124*	10	6	9	25	118				
2	86	26	103	215	3,359*	15	7	16	38	161				
3	553	214	615	1,382	6,774*	16	8	16	40	143				
4	1,259	34	1,855	3,148	12,592*	64	7	89	160	2,698				
River Total	2,096	417	2,729	5,242	27,849	105	28	130	263	3,120				
<u>OCTOBER</u>														
Area 1	701	429	623	1,753	9,130*	0	0	0	0	0				
2	575	170	693	1,438	7,988*	0	0	0	0	0				
3	834	197	1,053	2,084	15,324*	9	5	9	23	82				
4	1,755	136	2,497	4,388	9,377*	4	0	6	10	169				
River Total	3,865	932	4,866	9,663	41,819	13	5	15	33	251				
<u>NOVEMBER</u>														
Area 1	515	221	552	1,288	9,684*	0	0	0	0	0				
2	289	153	280	722	3,488*	3	1	3	7	30				
3	390	141	444	975	4,779*	3	1	3	7	25				
4	591	80	807	1,478	14,490*	2	0	3	5	84				
River Total	1,785	595	2,083	4,463	32,441	8	2	9	19	139				
<u>DECEMBER</u>														
Area 1	115	29	143	287	2,786*	0	0	0	0	0				
2	46	18	51	115	1,855*	1	1	1	3	13				
3	61	16	75	152	1,369*	0	0	0	0	0				
4	107	8	153	268	1,072*	0	0	0	0	0				
River Total	329	71	422	822	7,082	1	1	1	3	13				
6 mo. Total	8,228	2,082	10,264	20,574	111,481	670	237	768	1,675	22,585				

\* See note, page 7 of text.

TABLE 25

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1972						1973						Total Angler Days	
	C A T C H			Total Angler Days	C A T C H			Total Angler Days				Total Angler Days		
	Private Dock & Shore	Ramp	Resort		Total	Total	Private Dock & Shore		Ramp	Resort	Total			
<u>JULY</u>														
Area 1	0	0	0	0	0	0	48	39	34	34	121	522*		
2	53	25	55	133	564	34	34	30	22	22	86	108*		
3	4	2	4	10	36	8	4	8	8	8	20	72		
4	1	0	1	2	34	11	1	15	15	15	27	455		
River Total	58	27	60	145	634	101	74	79	79	79	254	1,157		
<u>AUGUST</u>														
Area 1	23	14	20	57	268	41	53	8	102	102	457*			
2	202	94	209	505	2,142	39	40	18	97	97	182*			
3	76	39	76	191	683	0	0	0	0	0	0	0*		
4	165	18	229	412	6,948	3	5	0	8	8	8	40*		
River Total	466	165	534	1,165	10,041	83	98	26	207	207	207	679		
<u>SEPTEMBER</u>														
Area 1	222	137	196	555	2,614	90	129	6	225	225	1,023*			
2	300	140	310	750	3,182	42	60	2	104	104	139*			
3	249	127	247	623	2,228	3	4	1	8	8	8	36*		
4	435	48	604	1,087	18,330	7	3	8	18	18	18	81*		
River Total	1,206	452	1,357	3,015	26,354	142	196	17	355	355	355	1,279		
<u>OCTOBER</u>														
Area 1	1,029	635	908	2,572	12,115	53	79	0	132	132	473*			
2	1,185	553	1,225	2,963	12,571	50	56	19	125	125	375*			
3	561	286	556	1,403	5,018	4	4	2	10	10	10	30*		
4	527	59	731	1,317	22,209	27	25	16	68	68	68	340*		
River Total	3,302	1,533	3,420	8,255	51,913	134	164	37	335	335	335	1,218		
<u>NOVEMBER</u>														
Area 1	884	546	780	2,210	10,410	0	0	0	0	0	0	0		
2	133	62	137	332	1,408	0	0	0	0	0	0	0		
3	121	62	120	303	1,084	3	1	3	7	7	7	25		
4	147	16	204	367	6,189	11	1	15	27	27	27	455		
River Total	1,285	686	1,241	3,212	19,091	14	2	18	34	34	34	480		
<u>DECEMBER</u>														
Area 1	135	83	119	337	1,587	0	0	0	0	0	0	0		
2	34	16	35	85	361	0	0	0	0	0	0	0		
3	31	16	31	78	279	0	0	0	0	0	0	0		
4	43	5	59	107	1,804	0	0	0	0	0	0	0		
River Total	243	120	244	607	4,031	0	0	0	0	0	0	0		
6 mo. Total	6,560	2,983	6,856	16,399	112,064	474	534	177	1,185	1,185	1,185	4,813		

\* See note, page 7 in text.

TABLE 26

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

Private Dock & Shore	1973			1974			Total Angler Days	
	C A T C H			C A T C H				
	Ramp	Resort	Total	Total	Angler	Days		
<u>JULY</u>								
Area 1	0	0	0	0	0	47	29	41
2	3	1	3	7	30	30	14	31
3	1	1	1	3	11	17	9	17
4	3	0	4	7	118	20	2	28
River Total	7	2	8	17	159	114	54	117
<u>AUGUST</u>								
Area 1	10	6	9	25	118	15	9	13
2	47	22	49	118	501	50	23	52
3	24	12	24	60	215	25	13	25
4	25	3	34	62	1,046	45	5	62
River Total	106	43	116	265	1,880	135	50	152
<u>SEPTEMBER</u>								
Area 1	147	91	130	368	1,733			**
2	141	66	146	353	1,498			**
3	199	101	197	497	1,778			**
4	213	24	295	532	8,971			**
River Total	700	282	768	1,750	13,980			
<u>OCTOBER</u>								
Area 1	711	439	628	1,778	8,375			**
2	803	374	830	2,007	8,515			**
3	538	274	533	1,345	4,810			**
4	605	67	841	1,513	25,514			**
River Total	2,657	1,154	2,832	6,643	47,214			
<u>NOVEMBER</u>								
Area 1	71	44	63	178	838			**
2	89	42	92	223	946			**
3	69	35	68	172	615			**
4	37	4	51	92	1,551			**
River Total	266	125	274	665	3,950			
<u>DECEMBER</u>								
Area 1	11	7	10	28	132			**
2	39	18	41	98	415			**
3	0	0	0	0	0			**
4	17	2	23	42	708			**
River Total	67	27	74	168	1,255			
6 mo. Total	3,803	1,633	4,072	9,508	68,438	249	104	269
								622
								4,684

\*\* No resort records available.

TABLE 27

STEELHEAD ESTIMATED PRIVATE DOCK and SHORE CATCH, RAMP CATCH, RESORT CATCH,  
ESTIMATED TOTAL CATCH, and ESTIMATED TOTAL EFFORT in ANGLER DAYS

	1974						1975					
	C A T C H						C A T C H					
Private Dock & Shore	Ramp	Resort	Total	Total Angler Days	Private Dock & Shore	Ramp	Resort	Total	Total Angler Days			
<u>JULY</u>												
Area 1	0	0	0	0	1	1	1	3	14			
2	0	0	0	0	39	18	41	98	416			
3	0	0	0	0	68	34	67	169	604			
4	0	0	0	0	145	16	201	362	6,105			
River Total	0	0	0	0	253	69	310	632	7,139			
<u>AUGUST</u>												
Area 1	1	1	1	3	14	2	1	2	5	24		
2	3	1	3	7	30	20	9	21	50	212		
3	16	8	16	40	143	10	5	10	25	89		
4	21	2	29	52	877	7	1	10	18	304		
River Total	41	12	49	102	1,064	39	16	43	98	629		
<u>SEPTEMBER</u>												
Area 1	235	220	132	587	1,213*	0	0	0	0	0	0	
2	171	40	217	428	2,658*	0	0	0	0	0	0	
3	80	68	52	200	2,632*	0	0	0	0	0	0	
4	188	64	218	470	33,571*	3	0	5	8	135		
River Total	674	392	619	1,685	40,074	3	0	5	8	135		
<u>OCTOBER</u>												
Area 1	362	349	193	904	2,963*	0	0	0	0	0	0	
2	289	185	248	722	3,740*	3	1	3	7	30		
3	125	142	46	313	5,690*	1	1	1	3	11		
4	277	101	315	693	69,300*	9	1	12	22	371		
River Total	1,053	777	802	2,632	81,693	13	3	16	32	412		
<u>NOVEMBER</u>												
Area 1	125	142	45	312	1,560*	3	2	3	8	38		
2	74	86	26	186	907*	0	0	0	0	0	0	
3	129	141	52	322	3,538*	1	1	1	3	11		
4	44	22	44	110	13,750*	0	0	0	0	0	0	
River Total	372	391	167	930	19,755	4	3	4	11	49		
<u>DECEMBER</u>												
Area 1	16	22	2	40	702*	0	0	0	0	0	0	
2	64	35	61	160	894*	0	0	0	0	0	0	
3	33	12	37	82	4,100*	0	0	0	0	0	0	
4	38	0	56	94	1,585*	0	0	0	0	0	0	
River Total	151	69	156	376	7,281	0	0	0	0	0	0	
6 mo. Total	2,291	1,641	1,793	5,725	149,867	312	91	378	781	8,364		

\* See note, Page 7 of text.